

American Ammon Co

Important to Vocalists & Public Speakers



The History of the Ammonia-Phone

* For the
* TREATMENT AND CURE OF
Catarrh, Asthma, Bronchitis, Consumption
>>>>> AND ALL <<<<<<
Bronchial & Pulmonary
Affections by Inhalation



Published by

The American Ammonia-Phone Co. LIMITED

30 EAST 14TH STREET,

New York.

Artificial Italian Air
The AMMONIAPHONE.

Dr. CARTER MOFFAT,

*Inventor of the AMMONIAPHONE, for the production of ARTIFICIAL ITALIAN AIR;
formerly Senior and Principal Demonstrator in the Royal College of Surgeons, Edinburgh;
Professor of Chemistry, Materia Medica, and Toxicology, Glasgow, and Techni-
cological Professor in the Glasgow College of Science and Art; Italian
Gold Medalist, with Diploma of Honor; Cousin of the late
Rev. Robert Moffat, the African Missionary, and
father-in-law of Dr. Livingstone, the explorer,*

HAS BEEN SPECIALLY RETAINED BY THE COMPANY.



THE COMPANY'S MEDICAL ADVISER MAY BE CONSULTED DAILY AT 30 EAST 14TH STREET, NEW YORK, ON ALL MATTERS APPERTAINING TO AFFECTIONS OF THE NOSE, THROAT, CHEST, AND BRONCHIAL TUBES. RESIDENTS AT A DISTANCE, AND THOSE UNABLE TO AVAIL THEMSELVES OF A PERSONAL CONSULTATION, ARE INVITED TO FILL UP THE FORM AT THE END OF THIS BOOK, AND RECEIVE ADVICE FREE OF CHARGE.

1888



John J. Hoff

Ammonia

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American Ammoniaphone Company LIMITED.

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CONSULTING ADVISER.

DR. CARTER MOFFAT.
INVENTOR OF THE AMMONIAPHONE.

MANAGING DIRECTOR, CHAS. T. SMITH.

New York Nov: 11: 1884

Dear Sir,

We desire to advise you that having purchased from the English Company the rights for Dr. Carter Moffat's Ammoniaphone for the United States we are now prepared to supply Instruments and recharges. We have a letter addressed by you to Mr. Vermont, which has been handed to us for attention.

We have pleasure in forwarding herewith a "History of the Ammoniaphone" as requested. You may have already received a copy issued by the English Company; but you will find in this Edition fresh facts of great interest, together with overwhelming proof of the value of the Invention.

We have secured the services of Dr. Carter Moffat (late of The Royal College of Surgeons, Edinburgh, Scotland) the Inventor of The Ammoniaphone, who will be happy to answer any enquiries either personally at our Office, or by Mail without charge.

Yours Very Truly

American Ammoniaphone Co. Limited

W. B.

THE HISTORY OF THE AMMONIAPHONE.



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THE AMMONIAPHONE

(REDUCED FAC-SIMILE, ACTUAL LENGTH ABOUT 25 INCHES.)

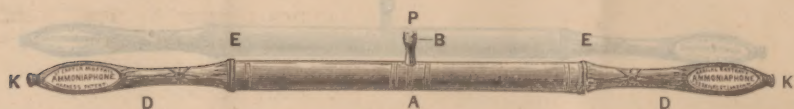


FIG. 37.

- A. Centre Portion of the Tube.
- B. Mouth-piece surmounted by
- P. Cap.
- D D. Handles.

- E. Portion to which the Handles are Screwed.
- G. Washer.
- K K. Push Pieces.



FIG. 40.

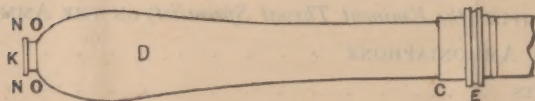


FIG. 41.

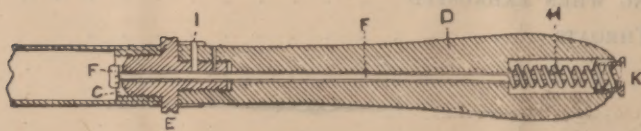


FIG. 42.

SECTIONAL VIEW.

- A. Centre-piece of Tube.
- B P. Mouth-piece with Cap.
- C. Point at which the Handles are Screwed.
- D D. Handles.
- E. Screwed, Threaded Piece.
- F. Plate or Disc, furnished on its inner surface with a washer.
- H. Spiral Spring.
- K K. Push Pieces.
- N O. Between these points an aperture for the admission of air is formed upon pressing upon the push-piece K.

HISTORY OF THE AMMONIAPHONE,

Extracted from a LECTURE delivered by

DR. CARTER MOFFAT,

Inventor of the "Ammoniaphone," and Discoverer of "Artificial Italian Air." Formerly Senior and Principal Demonstrator in the Royal College of Surgeons, Edinburgh; Professor of Chemistry, Materia Medica and Toxicology, Glasgow, and Technological Professor in the Glasgow College of Science and Art; Italian Gold Medalist, with Diploma of Honor.

THE subject which I have the honor to bring before you this evening belongs to that particular department of science called chemistry, and I shall best discharge my duties to-night by treating that subject in as popular a manner as I can. Speaking generally, science is a system of facts. Facts well ordained, well arranged, well ascertained, well-digested facts constitute science, and the science of chemistry has been deduced from experiments carried on in a particular direction. Let us understand that chemistry has to do with almost everything. We cannot actually move a step, nor think a thought, nor utter a word, nor breathe a breath without this science coming into play; the process of respiration, expiration, digestion, combustion, putrefaction, and decay, even life and death, are all chemical operations. This science of chemistry has to do with the composition of the air we breathe, the water we drink, the food we partake of, the coals we burn, the composition of the lovely flowers, the poisons which injure us, the minerals under the earth, the thousand of thousands of compounds we find in Nature, and the hundreds of thousands of new materials capable of being formed through chemical agency, by chemical transformation. Of recent years the composition of the atmosphere immediately surrounding the sun, moon and stars has been made known by the agency of the spectroscope, and we can with as much certainty determine the composition of the far-off planets as we can a simple mineral substance belonging to our earth.

"There is nothing new under the sun." The now favored method of treating diseases of the respiratory organs by means of inhalation was known and practiced by Hippocrates four or five hundred years before the commencement of the Christian era, and five or six hundred years later Galen sent his consumptive patients to the vicinity of Mount Vesuvius, that they might inhale the sulphuro-ammoniacal exhalations of the soil. If the mountain won't come to Mahomet, Mahomet must go to the mountain, but in this case the mountain will come to Mahomet or any other man.

It is clear that the system of inhalation is capable of indefinite, or at any rate very extensive development, by adapting the remedial agent to the nature of the malady under treatment.

Inhalation is creeping into practice, in some form or other, on every hand. What do we mean by "change of air," but that we must vary our inhalation by substituting the ozone of the sea-shore or the mountain-top for the vitiated atmosphere of great cities, or of apartments defective in their arrangements for ventilation. In fact, what do we mean by ventilation itself except a continual freshening of the air we inhale, so as to prevent the injurious consequences of inhaling air which has been used up and vitiated before it is used by us.

Up to a comparatively recent period, strange prejudices existed against treatment by inhalation; but these are gradually clearing away, as the mists of the early dawn disappear before the rising sun of daily and indisputable experience.

Dr. Carpenter, in his standard work on Physiology, says: "The pulmonary surface affords a most advantageous channel for the introduction of certain medi-



cines which can be raised in vapor, when it is desired to affect the system with them speedily and powerfully; and it is most astonishing to witness the extraordinary increase in potency which many substances exhibit when they are brought into relation with the blood in the gaseous form."

Dr. Hyde Salter says: "The air-passages are peculiarly favorably placed for topical medication, and the movements of respiration supply us with a valuable and easy means of conveyance."

Having these facts before me, I conceived the rather curious idea that the celebrity of Italy as a health resort for invalids *was due to something in the air*. I early began to make chemical experiments, to prepare all kinds of gases, solid substances, and fluid bodies, and to inhale and partake of these materials. For more than seven years, while I was the Principal Demonstrator in the Royal College of Surgeons of Edinburgh, I carried out my experiments in chemistry and in electricity. On being elected Professor of Chemistry in Glasgow, I continued to carry out experiments, hoping to determine the point. I amassed an immense amount of valuable information, but chiefly of a negative character. I attended the post-mortem rooms of the Glasgow Royal Infirmary, and made some thirty-five analyses of the miliary tubercles in the lungs of persons who had died from consumption, and tried to investigate every point relative to the subject of the treatment of bronchial and pulmonary affections by the aid of chemical and electrical science.

A little over ten years ago, I was requested by a London firm to proceed to Southern Italy, to the Valley of the Pescara, province of Chieti, Abruzzi Mountains, to conduct some chemical investigation. No sooner had I reached the shores of the Adriatic, than I perceived the peculiar tint of the vegetation to be quite different from what it is in our own country. My chemical knowledge at once informed me that the *yellow green tint of the grass*, the vine, the olive, *was due to something in the air*.

My first analysis in Southern Italy, to determine what was present in the air to account for the yellow green tint of the vegetation, was a dew-drop. Roaming from plain to plain and valley to valley, I made over seventy-three analyses of the air and dew. I went to the valley in which the celebrated sympathetic tenor Giuglini was brought up, and in that peaceful spot I found the atmosphere almost saturated with peroxide of hydrogen and free ammonia. I noted the maximum proportion of hydrogen peroxide to be present in the air about from eleven to two in day-time, dwindling down to a mere trace at dusk, and developing with the sunlight. The free ammonia appeared to be present in always about the same amount, no matter what hour of the day. Scientists, chemists, and natural philosophers had not at any time previously observed the existence of hydrogen peroxide in the air of Italy, and of free ammonia in larger amounts than it appears to exist in any country.

Full of hope, and certain that I had solved the problem, I proceeded home to Glasgow. So successful did my experiments prove, that I determined to relinquish all my appointments, to give up completely my professor and lectureships, and to devote years of necessary labor to elaborate my discovery. It was not without many anxious thoughts and grave musings that I concluded to do so. I resigned, all, and went out of Glasgow some fifteen miles, took the farm of Silverburn, Newarthill, Lanarkshire, fitted up two laboratories, and set to work. In the calm and quiet of a rustic home I have elaborated the discovery: the instrument is called the Ammoniaphone.

The marvellous and well-authenticated cases of which we hear from time to time, showing the beneficial results of inhalation in cases of catarrh, asthma, consumption, and pulmonary affections are not less strange or less true—and may we say not less difficult to believe by those who will not be at the pains to inquire into and verify such statements—than the illustrative cases which have from time to

time been put forward to show what may be done in the way of improving the vocal tone by those who (thanks to the Ammoniaphone) can now inhale Italian air, or its exact chemical equivalents, without leaving their own homes, much less being at the trouble and expense of going to Mount Vesuvius, as the patients of Galen had to do 1800 years ago.

The Ammoniaphone is therefore neither a nostrum nor a catholicon, but a simple, rational, and scientific method for the topical application of medical compounds, the chemical equivalents of the sulphuro-ammoniacal exhalations of the Italian soil which Hippocrates and Galen, the very earliest authorities and professors of the healing art, employed so long ago and with results so satisfactory.

ANTISEPTOID AMMONIAPHONE.

There are many persons who have hæmorrhagic diathesis and tendency to lung bleeding, and also there are those whose lungs are in a weakly and disorganized condition, who from phthisis, or it may be other complaints, are in constant danger of hæmoptysis.

By the injection by inhalation into the lungs of volatile antiseptics of the cressylic, terebinthic, carbolic, pyridic, toludic, piperic, and many other undetermined series, it is possible to *instantly* stop the bleeding.

The ordinary Ammoniaphone, saturated as it is with peroxide of hydrogen, amide of hydrogen, and ammonia, is further drenched with the highly volatile antiseptics named, and when a rapid current of air is drawn into the lungs through the instrument, the air becomes supersaturated with the antiseptics, which impinge on the injured vein or artery in the lung, with the result that in a few moments the bleeding ceases, and by continuing the inhalations several times daily the broken lung vessel becomes cemented up with coagulated hæmatosine. All educated medical scientists are aware that the albuminous and fibrinous matters in blood are coagulated by antiseptics of the series just mentioned, as well as by many others. Here, then, we have a means at hand, *always ready for use*, of doing good in a moment; and I have now seen a number of cases, so that, alike in theory and in practice, the inhalation of volatile antiseptics, employed in the manner stated, is correct.

Already prejudice is fast becoming dissipated, and many of the best known medical authorities in the world have considered it their duty to advocate the daily use of the Ammoniaphone in the many obscure throat and chest affections, as well as voice ailments and deafness, that so frequently come under their notice.

Thus does chemical science effect curious changes and discoveries. Our grandfathers, had they been told that the spectroscope, the telephone, the telegraph, the electric light, the photophone, the microphone, the audiphone, were all to be of the highest value, would have shaken their heads and said it cannot be. The Ammoniaphone, then, with its power of producing, artificially, Italian air, may be placed side by side with these instruments and discoveries, in its power to do good. We must not calculate a man's worth by considerations connected with his grandfather, so we ought not to calculate the value of a discovery by the date of its history.

We have the satisfaction of viewing the knowledge of Nature not only in a state of advancement, but even advancing with increasing rapidity, and the universal diffusion of a taste for science appears to promise, that as the number of cultivators increase, new and useful discoveries will be made, and those already known will be better understood and more beneficially applied.

R. CARTER MOFFAT.

T H E

AMMONIAPHONE, FOR THE IMPROVEMENT OF VOCAL TONE.

(Extract from an Article in the "Musical Standard.")

By Dr. ARMAND SEMPLE, B.A., M.B. Cantab., M.R.C.P. Lond.,

Professor of Vocal & Aural Physiology in, and late Examiner in Elementary Acoustics at Trinity College, London; for many years Clinical Assistant in the Throat Department at the London Hospital; Physician to the Royal Society of Musicians.



AMONGST the numerous appliances that have been introduced of late years into the treatment of affections, the invention of Dr. Carter Moffat is the most recent, and as it is now becoming so well known, and its merits so generally admitted, I have thought an account of it may not prove uninteresting.

The Italian Peninsula, with the exception of the plains of Lombardy, is distinctly of volcanic character and origin. It has been ascertained with absolute certainty that in the atmosphere of Italy free ammonia (NH_3) is present to a far greater extent than even in the air of many parts of the sea-coasts of other countries, and also that numerous small lakes are largely impregnated with this volatile alkali. The inquirer therefore assumed that by the action of sunlight and heat, considerably assisted by the ozone (O_2O) derived from the sea air, combined with moisture (H_2O), ammonia was set free from the extensive volcanic districts in which a salt of this gas, sulphate of ammonia [$(\text{NH}_4)_2\text{SO}_4$] was contained. Collaterally, also, an ingredient was formed, and one which had not previously been observed by scientific experimenters.

Dr. Carter Moffat made over seventy analyses of the air and the dew in the plains and valleys of various districts of Southern Italy, especially those of the Valley of Pescara, province of Chieti, in the neighborhood of the Abruzzi mountains, and found, without a single exception, peroxide of hydrogen (H_2O_2) and free ammonia (NH_3) to a larger extent than existed elsewhere.

The employment of peroxide of hydrogen in the treatment of disease is no novelty. Dr. B. W. Richardson, nearly twenty years ago, recorded that it relieved the paroxysms of whooping-cough, alleviated chronic bronchitis with dyspepsia, and operated favorably in the early stage of phthisis by improving digestion and increasing the activity of chalybeate or ferruginous remedies; in the later stages of this last-named malady affording relief to the dyspnoea and oppression, acting like opium in this respect without causing the narcotic effects of that drug.

The first circumstance that struck the inventor of the Ammoniaphone upon reaching the shores of the Adriatic was the peculiar *yellow green tint of the grass*, the vine, the olive, and even of the cabbage, thus exhibiting a striking contrast with the *brilliant green* of the English vegetation. The green of the Italian vegetation is of an *autumnal sombre hue*. A knowledge of chemistry suggested that this peculiar hue was consequent upon some chemical action going on in the air of the country. The air of the valley in which the celebrated operatic tenor Giuglini was brought up was found, upon analysis, to be impregnated with a considerable amount of peroxide of hydrogen and free ammonia. The maximum proportion of peroxide of hydrogen was present in the air from about eleven to two o'clock in the daytime, dwindling down to a mere trace at dusk and developing with the sunlight. The free ammonia seemed to be present always in about the same amount, regardless of the time of day.

From these analyses of the air and dew of the Italian valleys, Dr. Carter Moffat conceived the idea of the Ammoniaphone, and after many years' experimental-

izing with innumerable chemical combinations of gases arrived at the ingredients of the instrument.

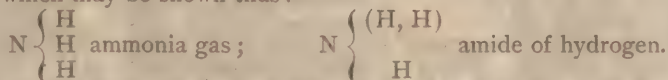
Any one who is in the habit of traveling by railway and passing through long tunnels, or who has suddenly come across the vapor arising during the repair of an asphalt pavement, or who has suddenly entered a room impregnated with tobacco smoke, is well acquainted with the highly-irritating atmosphere he thereby encounters. In the first instance the lungs are the recipients of such noxious gases as sulphurous anhydride (SO_2), carbonic oxide (CO), and carbonic anhydride (CO_2), substances which act most deleteriously upon the vocal organs. *Per contra*, by inhaling a balmy vapor such as is contained in the Ammoniaphone, it is claimed that a correspondingly advantageous state of affairs is induced.

If one vapor will cause an irritating sensation when inhaled into the lungs, it is quite a fair argument that there may be another, or others, which have exactly the contrary effect.

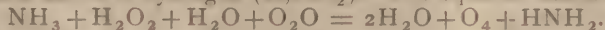
Amide of hydrogen (H.NH_2) is the peculiar constituent of the atmosphere of Italy, but the compound employed in the Ammoniaphone is so highly condensed that upon drawing the air through it, it is many times stronger than the actual Italian air. Amide of hydrogen is a gentle oxidizing agent of a sedative character.

Some chemical change is brought about by the action of the atmospheric air (which is inhaled) upon the ingredients contained in the Ammoniaphone, viz.: ammonia and peroxide of hydrogen—and this “artificial Italian air” is an amide of hydrogen. The reactions that occur may be thus expressed:

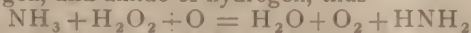
Amide of hydrogen is represented by the formula H.NH_2 , *i. e.*, hydrogen united to a compound radical amidogen. It is in reality an isomer of ammonia gas, NH_3 , which may be shown thus:



The chemical reactions which take place in the air of Italy then may be represented as follows: Ammonia gas (NH_3), together with peroxide of hydrogen (H_2O_2), moisture [aqueous vapor (H_2O)], and ozone (O_2O , yield, water (H_2O), oxygen (O), and amide of hydrogen (H.NH_2). The equation standing thus:



In the Ammoniaphone are contained free ammonia and peroxide of hydrogen, and the action of the oxygen contained in the air inhaled through these ingredients produces water, oxygen, and amide of hydrogen, thus—



exactly corresponding to the results which are obtained by reaction in the air of Italy.

The artificial Italian air acts by a process of gentle oxidation. By its inhalation remarkable elasticity and power are conferred upon the vocal cords, and the lung-vesicles becoming filled with this air, distinct oxidation is set up. By its use, for some time, expansion of the chest takes place, with a feeling of increased lung-space and power of voice. It invigorates the nervous centres of respiration, thus setting up a tonic reaction of the larynx and the organs of the thorax.

It is ridiculous to suppose that such artistes as Adelina Patti and Marie Roze would only fancy that the inhalation did their voices good. Every drug in the British Pharmacopoeia might be open to the remark, *Post hoc non propter hoc*, a sequence not a consequence, but if patients declare they are better after a certain remedy, this evidence can hardly be regarded as unsatisfactory.

The Ammoniaphone is very useful in keeping the voice in good order, and in lessening the susceptibility to catching cold. Its effect in strengthening the vocal cords accounts for the extension of the compass. It relieves hoarseness, huskiness, catarrh, and collections of mucus, and is useful in the treatment of relaxed throat. There is no room for doubt that its contents form, upon inhalation, a combination which acts with immense benefit upon the larynx and respiratory organs generally.



"Then those may sing who never sung before
And they who sang now sing the more."

GOD SAVE THE QUEEN.



THE AMERICAN AMMONIAPHONE COMPANY, LIMITED, HAVE PURCHASED FROM THE ENGLISH COMPANY THE SOLE RIGHT TO MANUFACTURE AND SELL THE AMMONIAPHONE IN AMERICA. THEY THEREFORE GIVE NOTICE THAT

THE AMERICAN Ammoniaphone Co., Limited.

DIRECTORS.

C. B. HARNESS.
JOS. BERNARD.
T. GILBERT BOWICK, Sec.
CHAS. T. SMITH, Treas.
WALTER BEHRENS, Pres.

Office:

30 E. 14th Street, New York.

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OR AGENT

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Office:

52 OXFORD ST., LONDON, W.

The following are selected from many thousands of unsolicited reports received. The originals may be seen at the Company's Rooms.

H. R. H. THE PRINCE OF WALES
and H. R. H. PRINCESS LOUISE (THE
MARCHIONESS OF LORNE) use the
Ammoniaphone.

Lady S. MACNAMARA, Kensington Pal-
ace, writes:

"Thursday, Jan. 29th.

"Lady S. Macnamara begs to thank Mr.
Harness for his letter, and will certainly in-
form him when the AMMONIAPHONES

want replenishing; at present they are in good
order."

The Right Hon. W. E. GLADSTONE,
M. P., uses the AMMONIAPHONE.

"10 DOWNING STREET, WHITEHALL,
"May, 1885."

"Mr. Gladstone has received your letter of
the 9th, and desires to thank you for your
kind offer to recharge his AMMONIA-
PHONE. When exhausted, he will bear it
in mind."

From **Lady MACFARREN**, wife of Sir G. A. Macfarren, the eminent composer, 7 Hamilton Terrace, St. John's Wood, London, N. W.

"October 20th, 1884.

"I have tested the AMMONIAPHONE thoroughly, and can state that it accomplishes all you claim for it. I can strongly recommend it to all suffering from a weak voice or relaxed throat—in fact, I have already done so."

From **Hon. Mrs. H. CHOLMONDELEY**, Adelstrop Rectory, Chipping Norton.

"May, 1885.

"I have derived great benefit from the use of Dr. Carter Moffat's AMMONIAPHONE in relieving voicelessness of long standing."

From **Lady ARCHIBALD CAMPBELL**.

"January 14th, 1884.

"Experienced decided improvement in tone."

From **Madame LOUISE LEIBHART**, 67 Warwick Road, Maida Vale, London, N. W.

"I have pleasure in stating that I have given your AMMONIAPHONE a thorough trial on myself and pupils, and am perfectly satisfied with the result."

From **Dr. OLIVER WENDELL HOLMES**.

"I have had the pleasure of testing the AMMONIAPHONE, and I highly approve of it."

From **WM. F. HOLCOMBE, M.D.** (for fifteen years Professor in the New York Medical College).

"54 E. 25TH STREET, }
NEW YORK, Nov. 19th, 1885. }

"Before examining your instrument, I supposed it was designed only to sell, and probably not a scientific apparatus for the administration of medicated inhalations. After fully observing its use in several cases, I cordially recommend its use for debility of the vocal organs, for conditions arising from overworking the voice, for bronchial irritations, and catarrhal affections of the throat, larynx and lungs. I have found that deafness arising from catarrh has been relieved by the AMMONIAPHONE."

From **H. LE CARON, M.D.** (Chicago).

"FIFTH AVENUE HOTEL, }
NEW YORK, Oct. 14th, 1885. }

"I have carefully investigated and tested the AMMONIAPHONE, and cheerfully testify that its use is calculated to invigorate and permanently benefit the organs of respiration.

"The therapeutical properties of the medicinal compounds contained therein are most positively tonic, sedative and relaxing to the mucous linings of the air-passages."

From **Mrs. LANGTRY**.

"I find the AMMONIAPHONE gives a richness and roundness to the voice, and is invaluable in cases of hoarseness."

From **Madame MARIE ROZE**, Hawthorne Lodge, Finchley New Road, London.

"October 25th, 1884.

"I have tried your AMMONIAPHONE with the most wonderful results. I consider it the most marvellous invention of the age."

From **Madame ROSE HERSEE**.

"April 4th, 1885.

"I have found it a most valuable invention. Recently it enabled me to conquer a prolonged hoarseness."

From **Mrs. JAMES BROWN POTTER**.

"July 16, 1886.

"Many thanks for the AMMONIAPHONE. I have never used anything with a more satisfactory result."

From **RICHARD REISIG, M.D.**

"100 W. 49TH STREET, }
NEW YORK, Nov. 18th, 1885. }

"As far as I tested the AMMONIAPHONE I found it satisfactory. *It improved and strengthened the voice undoubtedly.*

"If this may be of any advantage, you may use it accordingly."

From **W. PORTEOUS, M.D., L.R.C.P., L.R.C.S.**

"140 MACDOUGAL STREET, }
NEW YORK, October 7th, 1885. }

"Whilst making a friendly visit to one of New York's most prominent actresses, I chanced to see one of your AMMONIAPHONES, which she praised very highly and stated she would not be without.

"She explained the mode of its use and acknowledged that the *beneficial results derived from its use materially assisted her* in the beginning of her season here this fall, when she was seriously hampered by a sore throat and hoarseness, and almost compelled to postpone her engagement, much to the regret of the New York public.

"I have read your printed matter on the AMMONIAPHONE, and am fully in accord with everything you state and claim for it, as your treatment of the throat and lungs coincided with my idea of what such a treatment should be.

"I believe in the great worth of your invention, and am confident of its making a success."

[Now at 2458 Notre-Dame St., Montreal.]

From H. WINGARDUN, C. E., City Hall.
"NEW YORK, Oct. 16th, 1885.

"I have used the AMMONIAPHONE for the catarrh, and found it relieved me very much."

From Prof. FRANCIS H. BROWN, Stamford, Conn.

"Dec. 28th, 1885.

"I am very much pleased with the AMMONIAPHONE, No. 2, I purchased, and feel that it is very beneficial and acts like a charm in my throat and bronchial troubles."

Madame MARIE AIMÉE writes :

"102 W. 34TH ST.,
NEW YORK, Oct. 17th, 1885."

"I have used the AMMONIAPHONE and have been greatly benefited by it. It has proved a great assistance in strengthening the voice, and I would highly recommend its use to all artists who have fatigued or weakened their voices by constant use, and thank you very heartily for the benefit I have received."

Mons. MARIUS, the well-known Operatic Vocalist, 57 Wellington Road, St. John's Wood, N. W., writes :

"December 27th, 1884.

"For years have I suffered with my throat, sometimes losing my voice entirely ; but since using the AMMONIAPHONE, although I have had two or three severe colds, I have never lost the use of my voice. I consider it a great boon to any one whose business is to SING or even SPEAK, and my wife also endorses these remarks."

Mme. ANNA JUDIC, the world-renowned French Serio-Comic Singer, writes :

"SAN FRANCISCO, CAL., Dec. 4th, 1885.

"I have great pleasure in acknowledging that your AMMONIAPHONE is precious for the Singers, for it is by its help alone that I have been able not to discontinue my performances in Boston."

Madame DE BREMONT (Alfa Norman Opera Company), writes :

"NEW YORK, Dec. 2d, 1885.

"I am much pleased with the AMMONIAPHONE ; I have found it invaluable in recuperating the voice from the fatigue of overwork. I sincerely hope the AMMONIAPHONE will secure the success it justly deserves."

From Madame MODJESKA, the great Comedienne and Shakespearean Interpreter.

"BUFFALO, October 9th, 1885.

"It affords me great pleasure to be able to add, in perfect sincerity, my own humble testimonial to the acknowledgment of so many high artistic and scientific authorities in favor

of that marvellous invention, 'THE AMMONIAPHONE.' Its effects upon improving both the quality and strength of the voice and upon preserving it from the many dangers that threaten it, make of the AMMONIAPHONE an indispensable friend to all who have to use their voice in public."

From RUDOLPH ARONSON, Manager of the N. Y. Casino.

"NEW YORK, Oct. 19th, 1885.

"I have examined your AMMONIAPHONE, and recommend same most heartily to artists who have fatigued and weakened their voices by constant use."

Our own J. K. EMMET says (*N. Y. Mirror*):

"January 22d, 1885.

"While abroad I discovered a splendid invention, called the AMMONIAPHONE. It helps the voice. The instrument was recommended to me by Mme. Patti, Signor Foli, and Mr. Wyndham. *It strengthens the voice and gives it a clear tone.* I have used it for some time, and my voice is MUCH BETTER than it has been for years."

Miss LESLIE-CHESTER (of the Vokes English Comedy Co. now in America).

"NEW YORK, Dec. 23d, 1885.

"I have much pleasure in saying that I use the AMMONIAPHONE daily, and find it a great benefit."

From the witty and indefatigable humorist, MARSHALL P. WILDER.

"147 5TH AVE.,
NEW YORK, Oct. 1st, 1885."

"When I received your letter, I was just leaving a friend with whom I had been talking of your wonderful instrument. I have used it now several weeks, and find it most useful to me. Thanking you again."

From E. VICARINO, M. D., the distinguished Professor at the New York Conservatory of Music.

"160 W. 10TH ST.,
NEW YORK, October 6th, 1885."

"I take pleasure in stating that, for the last six months, I have used constantly two instruments of the No. 1 type—the cheapest of the AMMONIAPHONES—and that the effects produced on the voice and on the respiratory organs in general have been decidedly beneficial."

"The sound of the voice is fuller, richer, of an easier flow, in every respect more satisfactory. The change is clearly noticeable after a few inhalations, and, of course, a treatment of long duration gives still more marked results."

"To my knowledge, after six months' practice, the AMMONIAPHONE is, in all cases,

absolutely harmless to the general health, and can be used freely without danger.

"I have also seen the instrument used by a number of people among my acquaintances, *professional singers*, lawyers, amateurs, etc., and the general verdict is highly favorable."

From **ALBERTO LAURENCE**, the famous Operatic Baritone and renowned Professor of Singing.

"147 E. 18TH ST.,
NEW YORK, Nov. 1st, 1885."

"Dr. Carter Moffat's AMMONIAPHONE is a benefit to mankind, and will soon become a household blessing everywhere. I know by experience that the ingredients used are splendidly efficacious, and am more than delighted that the same are now offered to the public in a form and manner so very complete and convenient through the above-named elegant and simple instrument. Everybody should have it. To singers and speakers it has the merit of clearing the way for the voice (so to speak), causing the throat to dilate with less effort. At the same time it imparts vigor by stimulating the muscles and fibres of the vocal organs to the performance of their duty, and gives firmness to the walls of the whole tube through which the sound has to pass, the perfect formation of which is the secret of voice-building. Better than a curer of coughs and colds, it will prove to be a sure preventive, if timely and judiciously applied.

"Permit me to say that the air which is inhaled through the AMMONIAPHONE should be exhaled through the nostrils, giving the benefit, in a measure, to the membrane there also. In recommending it, I shall consider I am doing my duty to mankind."

From the well-known Singing Teacher, Miss **MAY F. SMITH.**

"153 E. 72D ST.,
NEW YORK, Dec. 1st, 1885."

"I am fully satisfied with the AMMONIAPHONE, and its excellent qualities quite surprise me."

From **WILLIS WOODWARD**, Music Publisher.

"842-844 BROADWAY,
NEW YORK, Oct. 17th, 1884."

"I have tried the AMMONIAPHONE, and consider it wonderful for clearing the throat; would recommend all singers to try it."

From Miss **A. C. DISBROW.**

TRENTON, N. J., Dec. 8th, 1885.

"I have used an AMMONIAPHONE No. 2 for three weeks now, and think that it is all that you claim it to be. It has *greatly strengthened my voice.*"

Rev. W. HAY M. H. AITKEN, 14 Bryanston Square, London, W. (preaching lately in New York and neighborhood during the advent season), writes:

"Will you kindly recharge my AMMONIAPHONE? I have derived much benefit from its use. It certainly does clear the voice in a remarkable way, and enables me to get through my work, preaching two or three times a day, and sometimes oftener, with much less trouble and fatigue."

Rev. H. R. HAWEIS, the well-known writer and lecturer (recently in the United States on a lecturing tour), writes:

"August 1st, 1885.

"I have much pleasure in stating that I have derived benefit from the use of the AMMONIAPHONE, in incipient sore throat; and Mrs. Haweis has used hers with much effect, and found it imparts strength and endurance to her voice."

From the **Rev. H. W. THOMAS, D.D.**, the renowned Chicago preacher.

"535 MONROE ST.,
CHICAGO, Nov. 16th, 1885."

"The AMMONIAPHONE came safely. I have used it regularly some weeks now, and *find it beneficial*. I think it will be a great help in my regular and often very hard work as a public speaker."

From **W. T. CARLETON, Esq.**, the celebrated singer and actor.

"CHICAGO (TREMONT HOUSE),
Jan. 25, 1886."

"I have used the AMMONIAPHONE lately, and find it a really wonderful invention, and one that all singers should not neglect. After a few inhalations, the effect upon the vocal chords is at once apparent by the ease with which the emission of the voice is made."

"W. T. CARLETON."

From **XAVIER DA COSTA**, Professor of Singing, and father of Linda da Costa.

"I take much pleasure in stating that the AMMONIAPHONE I purchased has benefited Linda's voice to a great extent, making it stronger, clearer, and helping to cure an attack of catarrh which had somewhat troubled her of late. Hoping your success may be proportionate to the merits of the instrument."

From **A. P. BURBANK.**

"Having used the AMMONIAPHONE, I am convinced that it is of the greatest value to all public speakers and singers."

Miss CARLINGFORD, the distinguished operatic contralto vocalist of the Savoy and Comedy Theatres.

"22d August, 1884.

"I have much pleasure in stating that I purchased one of your AMMONIAPHONES some time ago, and have used it daily. My

experience of it is that it has caused my voice to become stronger, with much improvement in tone, flexibility, and facility in overcoming the difficulty of the breaks between the registers. I also consider it a most valuable instrument for sustaining the voice during prolonged vocal exertions."



July 1885
*I have used the Ammoniaphone
 and found its effects most
 beneficial. Amelia Patti.*

From Mr. W. PHILLIPS, Jr.
 115 So. 5TH ST., PHILADELPHIA, PA., }
 June 15th, 1886. }

"AMMONIAPHONE received on the 5th inst., and immediately put to a test. Although in use for less than two weeks, I have found it very beneficial. It does all that you claim for it. My voice has improved, both in richness of tone and volume, and I heartily endorse the AMMONIAPHONE.

From A. ROSE, M.D.

"214 2D AVE., }
 NEW YORK, Jan 29, '86. }
 "I have employed the AMMONIAPHONE in the case of a lady afflicted with chronic naso-pharyngeal catarrh, and find that she is decidedly improving under the treatment, that is, the daily use of the AMMONIAPHONE. I shall soon report some more cases presently under observation."

DR. CARTER MOFFAT'S AMMONIAPHONE

(HARNESS' PATENT.)

Trade Mark—"AMMONIAPHONE."

DIRECTIONS FOR USE.

UNSCREW the centre cap or nozzle two turns. Take hold of the Ammoniaphone, **press the end valves**, bend forward, place the lips tightly over the centre cap, and **inhale very slowly, but deeply**. When a sufficient number of inhalations have been taken, screw down the centre cap, and put away the instrument **in a horizontal position**.

INVALIDS.—In all cases of chest and throat affections, and all pulmonary ailments, the happiest results follow the use of the Ammoniaphone. Invalids should **slowly and deliberately** take four to six inhalations every day, increasing the number proportionately to the severity of the attack. Age makes little, if any, difference.

WHEN the Ammoniaphone has become exhausted, it must be sent to the American Ammoniaphone Company, Limited, 30 East 14th Street, New York, **Sole Licensees**, who will re-charge and return it, post free.


IT is recommended that no two persons use the same Ammoniaphone.

THE AMMONIAPHONE

Is charged with Chemical compounds simulating the composition of the Air of Southern Italy, under the direct supervision of the Discoverer.

Dr. Carter Moffat guarantees the entire harmlessness of the materials used.

Attention will hardly require to be called to the irreparable injury that may easily be caused to the delicate organism of the throat by inhaling chemicals indiscriminately; the public must therefore see that Dr. Carter Moffat's name is stamped on every Ammoniaphone—no others are genuine.

 If you do not require advice yourself, hand this "Advice Form" to any friend or acquaintance to whom you think it might be of service, and you will place the individual under a lasting obligation to yourself.

PRIVATE ADVICE FORM

For the benefit of all sufferers from Catarrh, Asthma, Bronchitis, Pulmonary Hæmorrhage, and all Nose, Throat, and Chest Affections.

When further advice is required, this Form should be filled up and returned addressed to the Consulting Medical Officer, American Ammoniaphone Co., Limited, 30 East 14th Street, New York, who has made a special scientific study of all Affections of the Throat and Chest, and who can vary the ingredients with which the Ammoniaphone is charged to meet the special requirements of each particular case.

CONSULTATION, EITHER PERSONALLY OR BY LETTER, FREE.

The American Ammoniaphone Co., Limited, 30 East 14th Street, New York.

Folio _____

Date _____

In giving the undermentioned particulars of your case, please be explicit, and note remarks at foot. All communications will be considered

STRICTLY PRIVATE AND CONFIDENTIAL.

Name and Address, in full:—

Profession or Occupation:—

Age:—

Nature of Illness:—

Cause and Symptoms:—

Under what Treatment:—
(Past or Present.)

General Health:—

Abstainer or otherwise:—

Measurement round Chest:—

1. The Consulting Medical Officer advises in every case, on behalf of the Company, without charge, and will be greatly assisted in forming a clear idea of the patient's requirements by receiving the particulars indicated under the different headings stated as explicitly as possible. Compliance with these suggestions will often prevent delay and disappointment.

2. During a prolonged experience in throat and chest affections, often of the most difficult and delicate character, the Consulting Medical Officer has frequently found that a nervous feeling has deprived him of full information; he would, therefore, ask correspondents to communicate freely, and without reserve, every communication with which he is favored being regarded as strictly confidential. In some instances, special permission is given to use a statement respecting successful treatment.

3. A letter has often been of more service to the pa-

tient and value to the specialist than a personal consultation, enabling the writer to state unreservedly minute details, which might be overlooked by nervous patients in the natural agitation and diffidence of an interview.

4. The interest which former patients evince in favor of this marvellous discovery for the treatment of chest and throat affections by chemical inhalation has proved sufficient to inspire confidence in others. By this means its reputation has been so far extended, that it has obtained a well-established popularity, and is superseding all other methods of combating pulmonary and throat diseases.

5. Explain any point not included in the foregoing inquiries, but which should be known as a condition of or helping towards, successful treatment.

6. Future reference by letter to this case should have its folio number prefixed.

THE LOST VOICE.

A Refrain on Dr. Carter Moffat's "Ammoniaphone."

To love is sweet—but, ah! how sad
The fate of one poor love-sick lad
Of whom I sing, that passing well
Did love, yet ne'er his love could tell!

For when the maiden of his choice
He wished to woo, he'd lost his voice!
How could she guess he meant to say:
"My hand and heart are thine for aye?"

Ah! well for him and for the fair,
He'd heard that pure Italian air
Might be inhaled, imparting tone,
Thro' *Moffat's* famed AMMONIAPHONE!

Words by PERCY G. MOCATTA.

He purchas'd one to end his woes,
Regain'd his voice, did then propose;
And in such tones his suit did press,
The charmer straightway answer'd "yes!"

"Yes!"—welcome sound on lover's ear!
"Yes!"—'twas the word he'd long'd to hear!
The weary days and nights he'd passed
Were well repaid—he'd won at last!

Ten thousand times he bless'd the sage,
Great benefactor of the age!
Restorer of his vocal tone;
Inventor of th' AMMONIAPHONE!

Music by ALFRED ALLEN.

DR. CARTER MOFFAT'S

AMMONIAPHONE

HARNESS PATENT.

PRICE LIST.

THE COST OF THE AMMONIAPHONE VARIES in proportion to the concentration and quantity of the chemicals employed ; the higher-priced and more powerful instruments having a more IMMEDIATE effect, and lasting a proportionately longer time before becoming exhausted.

THE MORE POWERFUL INSTRUMENTS are strongly recommended by DR. CARTER MOFFAT in all cases of Throat, Chest, and Lung Affections of obscure character and long standing. They give immediate relief, resulting ultimately in lasting benefit and cure.

THE USE OF EACH INSTRUMENT is guaranteed to be perfectly harmless ; the most delicate and sensitively organized may therefore inhale with confidence.

No. 1.....	Price	\$8 each, Express Paid.
" 2.....	"	\$16 "
" 3.....	"	\$24 "
" 4.....	"	\$32 "
" 5.....	"	\$40 "

RE-CHARGING.

It must be distinctly understood that the chemicals with which the Ammoniaphone is charged, will, sooner or later (according to the usage it receives), become exhausted. A No. 1 instrument will usually not require re-charging for some months. Therefore, in order that the deservedly high reputation of the Ammoniaphone may be sustained, we have to request that it be returned to us by Parcels Post as soon as any diminution of its strength is perceptible ; we will then re-charge and return it without delay.

Re-charging No. 1.....	\$1 50.
" " 2.....	\$2 00.
" " 3.....	\$2 50.
" " 4.....	\$3 00.
" " 5.....	\$3 50.

Address: RE-CHARGING DEPARTMENT,
AMERICAN AMMONIAPHONE COMPANY, Limited,
30 East 14th Street, NEW YORK.

THE COMPANY'S CONSULTING MEDICAL ADVISER

ATTENDS DAILY AT THE ROOMS OF THE

AMERICAN AMMONIAPHONE COMPANY, LIMITED,

30 East 14th Street, NEW YORK.

TO DEMONSTRATE THE EXTRAORDINARY UTILITY OF THE

AMMONIAPHONE.

AND TO ANSWER ANY ENQUIRIES, EITHER PERSONALLY OR BY LETTER, WITHOUT CHARGE.

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**IF YOU MEET A MAN** who has been spending a fortune in Doctors' Bills, who has tried every remedy, and has at last come to the conclusion that his case is utterly hopeless, **TELL HIM** to at once stop physicking and give the simple and rational process of inhalation a trial. Inform him that **THOUSANDS OF PATIENTS** gratefully acknowledge the priceless benefits derived from the use of the Ammoniaphone. Assure him that **CATARRH IS CURABLE** and that when you say it is curable you don't mean that the sufferings may be temporarily relieved, but absolutely and permanently driven away. Say that not only is Catarrh curable, but **SO IS BRONCHITIS** that if he chooses to go on suffering it is entirely his own fault, that a rational, speedy, effective, and simple remedy is within his reach, a remedy which will conquer when hope has fled, when the constitution is shattered, and when friends sorrowfully shake their heads and whisper that he is slowly dying of **CONSUMPTION**. Assure him that however abstruse his complaint, that however the most eminent Physicians may wrangle of its diagnosis, Thousands testify that the AMMONIAPHONE WILL POSITIVELY AND PERMANENTLY CURE ASTHMA, BRONCHITIS, CONSUMPTION, **AND ALL PULMONARY AFFECTIONS**. Tell him that the Ammoniaphone costs EIGHT DOLLARS, that it will save him from heavy Doctors' Bills, years of suffering, and an early grave. Inform him that if he has any doubts whatever in the matter **BY SIMPLY** sending a post-card for the "History they will be entirely dispelled of the Ammoniaphone," which will be forwarded post free, and which contains OVERWHELMING EVIDENCE from a MULTITUDE OF GRATEFUL SUFFERERS who have been COMPLETELY AND PERMANENTLY CURED by throwing Physic on one side, by giving Nature a chance, and by **USING THE AMMONIAPHONE**.

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THE

AMERICAN AMMONIAPHONE COMPANY, Limited,

30 East 14th Street, NEW YORK.